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U.S. Bureau of the Census

United States life tables, 1930-1939

Washington

1941

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July 21,1941

UNITED STATES LIFE TABLES

1930-1939 (Preliminary)

For White and Nonwhite by Sex

INTRODUCTION

The preliminary life tables here presented relate to the continental United States for the years 1930 through 1939, and thus reflect the average mortality rates experienced during that decade. Formerly, the Bureau has prepared tables for the Negro population instead of for all nonwhite races combined. The present tables were prepared for the nonwhite population, since preliminary data from the 1940 Census do not give separate figures for Negroes. As approximately 95 percent of the nonwhite population is Negro, these life table values must be very close to what would have been obtained for Negroes only.

The first population life tables based on registered deaths prepared by the Bureau of the Census were based on the censuses of 1890, 1900 and 1910, and were limited to the few States which, at the time of each census, had satisfactory systems of death registration. Following the census of 1920 abridged life tables were prepared covering 27 States that were believed to have reasonably adequate death reporting at that time. The first life tables covering the entire continental United States were issued following the 1930 Census for the years 1929 to 1931. The present life tables are the first to cover the entire country for a 10-year period. Abridged life tables for the period 1930 through 1939 for geographic divisions of the United States are now in process of preparation and will be released in the near future.

MORTALITY TRENDS

The following table indicates the trend of mortality of the white population over the entire period for which United States life tables based on registered deaths are available. The areas for which the trends are indicated are the largest for which acceptable data are available at each period, and therefore most nearly representative of the country. If data for equal areas were presented in similar tables, the values would be almost the same.

SELECTED VALUES FROM LIFE TABLES FOR WHITE MALES AND FEMALES: 1900 TO 1940

TIME PERIOD	AT BIRTH		AGE 20		AGE 45		AGE 70	
	Male	Female	Male	Female	Male	Female	Male	Female
Death rate per 1,000 persons alive at beginning of year of age:								
1900-02 [1]	133.5	110.6	5.9	5.5	12.6	10.6	58.9	53.7
1919-21 [2]	80.3	68.9	4.3	4.3	9.3	8.1	54.8	50.2
1929-31	62.3	49.6	3.2	2.6	9.3	7.0	58.0	48.7
1930-39	57.0	45.0	2.7	2.2	8.6	6.3	56.3	45.8
Average future lifetime:								
1900-02 [1]	48.2	51.1	42.2	43.6	24.2	25.5	9.0	9.6
1919-21 [2]	56.3	59.5	45.6	46.5	26.0	27.0	9.5	9.9
1929-31	59.1	62.7	46.0	48.5	25.3	27.4	9.2	10.0
1930-39	60.6	64.5	46.6	49.7	25.5	28.0	9.3	10.2

[1] For the original registration States.
[2] For the death registration States of 1920.

Prepared by Elbertie Foudray and Thomas N. E. Greville under the general supervision of Morris H. Hansen, Acting Assistant Chief Statistician, Division of Statistical Research.

The table shows a progressive lowering of the death rates and a corresponding increase in the average lifetime. The improvement is most marked at age zero, but still considerable at age 20, slight at age 45, and almost imperceptible at age 70. These comparisons seem to indicate that there has been no increase in the extreme limits of life, but that many persons who formerly would have died in infancy or in early or middle life are now completing a normal life span. Nonwhite figures are not available for the entire period but would undoubtedly show a similar trend.

DESCRIPTION OF THE TABLES

The four complete life tables which follow give the detailed figures for the period 1930 to 1939.

Column 1: The year of age as given in column 1 is the interval between two successive birthdays. For instance, "4-5" is the interval between the 4th birthday and the 5th, or, in other words, it is the fifth year of life.

Column 2: This is the basic column of the life table. It shows the rate of mortality: that is, the number of deaths in the year of age per thousand persons alive at the beginning of that year of age. For example, in the table for white males the value for age 48 is 10.8. In other words, during 1930-39, the period on which these tables are based, 10.8 out of every thousand white males alive on their 48th birthday died before reaching age 49.

Column 3: This shows the number that would survive to each age out of 100,000 births if they were subject throughout life to the rates of mortality shown in column 2. As an illustration of the use of column 3, suppose there is a group of 4,873 white females now exactly 20 years of age and it is desired to estimate how many of this group will live to age 60. Column 3 of the life table for white females shows that out of 92,145 alive at age 20, 71,618 survive to age 60. Hence, the desired estimate is obtained by multiplying 4,873 by 71,618 and dividing by 92,145, which gives 3,787 as the number expected to survive to age 60.

Column 4: This shows the number of deaths in each year of age among the survivors of the 100,000 births in column 3. For example, the figure 1,360 at age 60-61 in the life table for white females indicates that out of each 100,000 births 1,360 will die between their 60th and 61st birthdays.

Column 5: If to the generation of 100,000 births indicated in column 3 there be added each year another generation of 100,000 births and if each generation be subject to the rates of mortality shown in column 2, there would be built up what is called a stationary population. In such a population the numbers in each age group would not change with time, provided that there were no migration and the births were evenly distributed over the calendar year. Column 3 may now be also interpreted as the number of persons in this stationary population who, each year, reach the birthday indicated in column 1. Column 4 then shows the annual number of deaths in each year of age, and column 5 the number alive between two exact ages, or birthdays, at any given calendar date, such as a census date. For example, the figure 85,661 which appears opposite age 35-36 in the table for white males shows that there would be 85,661 persons in this stationary population between their 35th and 36th birthdays at any given date.

Column 6: Each number in this column is the sum of the numbers in column 5 for that age and all older ages, thus showing the total persons living at any time in the stationary population at that age and all subsequent ages.

This column is useful in answering questions such as the following. A certain group of 10,000 nonwhite males are now between 45 and 50 years of age, and it is desired to estimate how many will be alive ten years hence. The number in the stationary population between ages 45 and 50 is obtained by subtracting the population 50 and over from that 45 and over (or 1,359,-361 less 1,062,128), which leaves 297,233. Ten years hence these persons will be between 55 and 60, and the stationary population between those ages (the survivors of the group 45 to 50) is 801,495 less 578,595 or 222,900. In the group of 10,000 we may expect the same proportion to survive, so that 10,000 times 222,900 divided by 297,233, or 7,499, is the estimated number living ten years later. This calculation involves two assumptions: first, that the future mortality in the special group under consideration will closely approximate that shown in column 2 of the life table for nonwhite males; and second, that the age distribution in the group sufficiently resembles that of the stationary population.

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Column 7: Another use for columns 5 and 6 is to give the time (in years) lived after each birthday by those passing that birthday in the stationary population. Thus, the figure 90,113 for age 20-21 in column 5 of the table for white males is the total time lived between their 20th and 21st birthdays by the 90,234 (column 3) who pass their 20th birthday each year. The corresponding figure in column 6, or 4,220,625, is the total number of years that will be lived by this group up to the end of their lives. This last number divided by the number that pass their 20th birthday each year (or 4,220,625 divided by 90,234) gives 46.8 as the average future lifetime of this group of persons. The average future lifetime at any age is technically known as the complete expectation of life at that age.

Care must be exercised in drawing conclusions from the figures in column 7. Thus, observing that the "expectation of life" at birth is 60.6 for white males and 50.1 for nonwhite males, one should not conclude that the normal length of life of white persons is greater than that of nonwhites, since the average future lifetime at age 65 is 11.9 for white males and 11.7 for nonwhite males. The 10-year difference at birth is actually due to the fact that more nonwhite persons die in infancy, childhood, youth, and middle age, and fail to live out a normal life span.

It should be understood by users of the tables that the population, birth, and death figures which entered into their construction are subject to some error. Moreover, the 1940 populations used were based on the tabulation of a 5 percent cross-section of the 1940 Census. For these reasons, the published figures in certain parts of the tables cannot be regarded as correct to the number of significant figures shown. As a matter of convenience, however, each life table function is shown to the number of places that is believed to be of significance for that function for any part of any of the life tables given.

The analysis of the available data gives some evidence of substantial biases in age reporting, or of incompleteness of registration and enumeration, for the nonwhite population. Consequently, as is clearly illustrated in the accompanying charts, the nonwhite life table values contain irregularities that may not represent real differences in mortality. Moreover, the basic data for both the white and nonwhite populations at ages over 85 or 90 may be subject to relatively serious errors, and for these ages the life table values must be considered only as reasonably reliable estimates.

The accompanying tables are labeled "preliminary," as it is planned to make a further study of the various possible sources of error, and to incorporate the results of this study in a revised set of life tables which will be based on the final tabulation of the 1940 Census data. It is planned that the final tables will contain some indication as to the limits of error in the figures.

DESCRIPTION OF THE CHARTS

The accompanying charts show the rates of mortality by age for each race-sex group for the decade 1930-39, and also the corresponding rates for the period 1929-31. If we assume that each life table reflects approximately the mortality at the middle of the period to which it relates, the time comparisons in the charts represent a difference in mortality of about five years. We can feel confident that any change during the decade in the completeness of death registration has not been for the worse, and, other things being equal, would only have the effect of increasing the apparent rates of mortality. Hence, the indicated decreases in mortality clearly show a real improvement in each race and sex, and suggest that the actual change may well have been greater than appears from the charts. It is evident also that the improvement has been more marked among females than among males.

It will be noted that female mortality is lower at all ages, except in the case of nonwhites from age 14 to age 20. Nonwhites show a higher mortality than whites up to age 75. It is open to question whether the lower mortality above 75 is a genuine phenomenon due to the elimination, below that age, of a greater proportion of persons of lower vitality, or whether it is partly or wholly the result of overstatement of age in the census by aged nonwhites.

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TABLE 1.—WHITE MALES

Year of age	Mortality rate	Of 100,000 males born alive		Stationary population		Average future lifetime[1]
	Number dying per 1,000 alive at beginning of year of age	Number alive at beginning of year of age	Number dying during year of age	In year of age	In year of age and all later years	Average number of years of life remaining at beginning of year of age
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to x+1	$1000q_x$	l_x	d_x	L_x	T_x	$\mathring{e}_x$
0- 1	57.0	100,000	5,697	95,890	6,061,936	60.6
1- 2	8.1	94,303	761	93,854	5,966,556	63.3
2- 3	4.2	93,542	392	93,334	5,872,702	62.8
3- 4	2.9	93,150	273	93,008	5,779,368	62.0
4- 5	2.3	92,877	215	92,765	5,686,360	61.2
5- 6	2.0	92,662	186	92,569	5,593,595	60.4
6- 7	1.8	92,476	167	92,392	5,501,026	59.5
7- 8	1.6	92,309	152	92,233	5,408,634	58.6
8- 9	1.5	92,157	140	92,087	5,316,401	57.7
9- 10	1.4	92,017	131	91,951	5,224,314	56.8
10- 11	1.4	91,886	124	91,824	5,132,363	55.9
11- 12	1.3	91,762	119	91,702	5,040,539	54.9
12- 13	1.3	91,643	120	91,583	4,948,837	54.0
13- 14	1.4	91,523	131	91,457	4,857,254	53.1
14- 15	1.6	91,392	149	91,317	4,765,797	52.1
15- 16	1.8	91,243	167	91,160	4,674,480	51.2
16- 17	2.0	91,076	186	90,983	4,583,320	50.3
17- 18	2.3	90,890	206	90,787	4,492,337	49.4
18- 19	2.4	90,684	219	90,575	4,401,550	48.5
19- 20	2.5	90,465	231	90,350	4,310,975	47.7
20- 21	2.7	90,234	243	90,113	4,220,625	46.8
21- 22	2.8	89,991	255	89,863	4,130,512	45.9
22- 23	3.0	89,736	266	89,603	4,040,649	45.0
23- 24	3.0	89,470	269	89,336	3,951,046	44.2
24- 25	3.0	89,201	270	89,066	3,861,710	43.3
25- 26	3.1	88,931	272	88,795	3,772,644	42.4
26- 27	3.1	88,659	274	88,522	3,683,849	41.6
27- 28	3.1	88,385	279	88,246	3,595,327	40.7
28- 29	3.2	88,106	285	87,964	3,507,081	39.8
29- 30	3.4	87,821	295	87,674	3,419,117	38.9
30- 31	3.5	87,526	305	87,374	3,331,443	38.1
31- 32	3.6	87,221	316	87,063	3,244,069	37.2
32- 33	3.8	86,905	330	86,740	3,157,006	36.3
33- 34	4.0	86,575	349	86,401	3,070,266	35.5
34- 35	4.3	86,226	370	86,041	2,983,865	34.6
35- 36	4.6	85,856	391	85,661	2,897,824	33.8
36- 37	4.8	85,465	414	85,258	2,812,163	32.9
37- 38	5.1	85,051	437	84,832	2,726,905	32.1
38- 39	5.4	84,614	460	84,384	2,642,073	31.2
39- 40	5.7	84,154	484	83,912	2,557,689	30.4
40- 41	6.1	83,670	510	83,415	2,473,777	29.6
41- 42	6.5	83,160	540	82,890	2,390,362	28.7
42- 43	6.9	82,620	573	82,334	2,307,472	27.9
43- 44	7.4	82,047	610	81,742	2,225,138	27.1
44- 45	8.0	81,437	653	81,111	2,143,396	26.3
45- 46	8.6	80,764	697	80,435	2,062,285	25.5
46- 47	9.3	80,067	743	79,715	1,981,850	24.7
47- 48	10.0	79,344	793	78,947	1,902,135	24.0
48- 49	10.8	78,551	846	78,128	1,823,188	23.2
49- 50	11.6	77,705	898	77,256	1,745,060	22.5
50- 51	12.4	76,807	957	76,328	1,667,804	21.7
51- 52	13.4	75,850	1,018	75,341	1,591,476	21.0
52- 53	14.4	74,832	1,080	74,292	1,516,135	20.3
53- 54	15.5	73,752	1,141	73,181	1,441,843	19.5
54- 55	16.6	72,611	1,202	72,010	1,368,662	18.8

[1] Also known as complete expectation of life.

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TABLE 1.—WHITE MALES—Continued

Year of age	Mortality rate	Of 100,000 males born alive		Stationary population		Average future lifetime[1]
	Number dying per 1,000 alive at beginning of year of age	Number alive at beginning of year of age	Number dying during year of age	In year of age	In year of age and all later years	Average number of years of life remaining at beginning of year of age
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to x+1	$1000q_x$	l_x	d_x	L_x	T_x	$\mathring{e}_x$
55- 56	17.7	71,409	1,266	70,776	1,296,652	18.2
56- 57	18.9	70,143	1,329	69,478	1,225,876	17.5
57- 58	20.3	68,814	1,400	68,114	1,156,398	16.8
58- 59	22.0	67,414	1,481	66,674	1,088,284	16.1
59- 60	23.8	65,933	1,569	65,149	1,021,610	15.5
60- 61	25.7	64,364	1,657	63,536	956,461	14.9
61- 62	27.9	62,707	1,747	61,834	892,925	14.2
62- 63	30.1	60,960	1,836	60,042	831,091	13.6
63- 64	32.5	59,124	1,922	58,163	771,049	13.0
64- 65	35.0	57,202	2,004	56,200	712,886	12.5
65- 66	37.8	55,198	2,087	54,155	656,686	11.9
66- 67	41.0	53,111	2,177	52,023	602,531	11.3
67- 68	44.4	50,934	2,259	49,805	550,508	10.8
68- 69	48.0	48,675	2,337	47,506	500,703	10.3
69- 70	52.0	46,338	2,409	45,133	453,197	9.8
70- 71	56.3	43,929	2,472	42,693	408,064	9.3
71- 72	61.0	41,457	2,529	40,193	365,371	8.8
72- 73	66.1	38,928	2,574	37,641	325,178	8.4
73- 74	71.8	36,354	2,608	35,050	287,537	7.9
74- 75	78.0	33,746	2,631	32,430	252,487	7.5
75- 76	84.7	31,115	2,636	29,797	220,057	7.1
76- 77	92.1	28,479	2,623	27,167	190,260	6.7
77- 78	100.0	25,856	2,587	24,563	163,093	6.3
78- 79	108.5	23,269	2,525	22,007	138,530	6.0
79- 80	117.5	20,744	2,437	19,526	116,523	5.6
80- 81	127.0	18,307	2,324	17,145	96,997	5.3
81- 82	137.0	15,983	2,189	14,889	79,852	5.0
82- 83	147.5	13,794	2,035	12,777	64,963	4.7
83- 84	158.8	11,759	1,867	10,825	52,186	4.4
84- 85	170.8	9,892	1,689	9,047	41,361	4.2
85- 86	183.5	8,203	1,506	7,450	32,314	3.9
86- 87	196.9	6,697	1,318	6,038	24,864	3.7
87- 88	210.9	5,379	1,135	4,812	18,826	3.5
88- 89	225.1	4,244	955	3,767	14,014	3.3
89- 90	239.6	3,289	788	2,895	10,247	3.1
90- 91	254.7	2,501	637	2,182	7,352	2.9
91- 92	270.2	1,864	504	1,612	5,170	2.8
92- 93	286.5	1,360	389	1,165	3,558	2.6
93- 94	303.5	971	295	823	2,393	2.5
94- 95	321.3	676	217	567	1,570	2.3
95- 96	340.2	459	156	381	1,003	2.2
96- 97	360.0	303	109	248	622	2.1
97- 98	381.1	194	74	157	374	1.9
98- 99	403.4	120	48	96	217	1.8
99-100	427.0	72	31	56	121	1.7
100-101	452.2	41	19	32	65	1.5
101-102	478.8	22	10	17	33	1.5
102-103	507.2	12	6	9	16	1.4
103-104	537.3	6	3	4	7	1.3
104-105	569.2	3	2	2	3	1.2
105-106	603.2	1	1	1	1	1.1

[1] Also known as complete expectation of life.

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TABLE 2.—WHITE FEMALES

Year of age	Mortality rate		Of 100,000 females born alive		Stationary population		Average future lifetime[1]
	Number dying per 1,000 alive at beginning of year of age		Number alive at beginning of year of age	Number dying during year of age	In year of age	In year of age and all later years	Average number of years of life remaining at beginning of year of age
(1)	(2)		(3)	(4)	(5)	(6)	(7)
x to x+1	.0000q_x		l_x	d_x	L_x	T_x	$\mathring{e}_x$
0- 1	45.0		100,000	4,503	96,393	6,452,165	64.5
1- 2	7.2		95,497	684	95,093	6,355,772	66.6
2- 3	3.6		94,813	344	94,631	6,260,679	66.0
3- 4	2.6		94,469	242	94,343	6,166,048	65.3
4- 5	2.0		94,227	189	94,129	6,071,705	64.4
5- 6	1.7		94,038	159	93,958	5,977,576	63.6
6- 7	1.5		93,879	140	93,809	5,883,618	62.7
7- 8	1.3		93,739	124	93,677	5,789,809	61.8
8- 9	1.2		93,615	111	93,560	5,696,132	60.8
9- 10	1.1		93,504	103	93,452	5,602,572	59.9
10- 11	1.0		93,401	95	93,353	5,509,120	59.0
11- 12	1.0		93,306	90	93,261	5,415,767	58.0
12- 13	1.0		93,215	89	93,171	5,322,506	57.1
13- 14	1.0		93,127	98	93,076	5,229,335	56.2
14- 15	1.2		93,029	110	92,974	5,136,257	55.2
15- 16	1.3		92,919	125	92,856	5,043,283	54.3
16- 17	1.5		92,794	139	92,724	4,950,427	53.3
17- 18	1.7		92,655	156	92,577	4,857,703	52.4
18- 19	1.8		92,499	170	92,414	4,765,126	51.5
19- 20	2.0		92,329	184	92,237	4,672,712	50.6
20- 21	2.2		92,145	199	92,046	4,580,475	49.7
21- 22	2.3		91,946	215	91,839	4,488,429	48.8
22- 23	2.5		91,731	227	91,618	4,396,590	47.9
23- 24	2.6		91,504	235	91,387	4,304,972	47.0
24- 25	2.6		91,269	239	91,150	4,213,585	46.2
25- 26	2.7		91,030	246	90,907	4,122,435	45.3
26- 27	2.8		90,784	251	90,659	4,031,528	44.4
27- 28	2.8		90,533	257	90,405	3,940,869	43.5
28- 29	2.9		90,276	262	90,145	3,850,464	42.7
29- 30	3.0		90,014	268	89,880	3,760,319	41.8
30- 31	3.1		89,746	274	89,609	3,670,439	40.9
31- 32	3.1		89,472	279	89,332	3,580,830	40.0
32- 33	3.2		89,193	287	89,049	3,491,498	39.1
33- 34	3.4		88,906	301	88,756	3,402,449	38.2
34- 35	3.6		88,605	316	88,447	3,313,693	37.4
35- 36	3.8		88,289	331	88,124	3,225,246	36.5
36- 37	4.0		87,958	348	87,784	3,137,122	35.7
37- 38	4.1		87,610	363	87,429	3,049,338	34.8
38- 39	4.3		87,247	374	87,060	2,961,909	33.9
39- 40	4.5		86,873	387	86,679	2,874,849	33.1
40- 41	4.6		86,486	401	86,285	2,788,170	32.2
41- 42	4.8		86,085	418	85,876	2,701,885	31.4
42- 43	5.1		85,667	437	85,448	2,616,009	30.5
43- 44	5.4		85,230	454	84,998	2,530,561	29.7
44- 45	5.8		84,766	495	84,518	2,445,563	28.9
45- 46	6.3		84,271	527	84,008	2,361,045	28.0
46- 47	6.7		83,744	561	83,463	2,277,037	27.2
47- 48	7.2		83,183	599	82,883	2,193,574	26.4
48- 49	7.7		82,584	636	82,265	2,110,691	25.6
49- 50	8.3		81,946	678	81,607	2,028,426	24.8
50- 51	8.9		81,268	723	80,907	1,946,819	24.0
51- 52	9.6		80,545	772	80,159	1,865,912	23.2
52- 53	10.3		79,773	821	79,363	1,785,753	22.4
53- 54	11.0		78,952	870	78,517	1,706,390	21.6
54- 55	11.8		78,082	921	77,622	1,627,873	20.8

[1] Also known as complete expectation of life.

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TABLE 2.—WHITE FEMALES—Continued

Year of age	Mortality rate		Of 100,000 females born alive		Stationary population		Average future lifetime[1]
	Number dying per 1,000 alive at beginning of year of age		Number alive at beginning of year of age	Number dying during year of age	In year of age	In year of age and all later years	Average number of years of life remaining at beginning of year of age
(1)	(2)		(3)	(4)	(5)	(6)	(7)
x to x+1	10000q_x		l_x	d_x	L_x	T_x	$\mathring{e}_x$
55- 56	12.6		77,161	975	76,674	1,550,251	20.1
56- 57	13.5		76,186	1,030	75,671	1,473,577	19.3
57- 58	14.6		75,156	1,095	74,608	1,397,906	18.6
58- 59	15.9		74,061	1,177	73,472	1,323,298	17.9
59- 60	17.4		72,884	1,266	72,251	1,249,826	17.1
60- 61	19.0		71,618	1,360	70,938	1,177,575	16.4
61- 62	20.8		70,258	1,460	69,528	1,106,637	15.8
62- 63	22.7		68,798	1,561	68,018	1,037,109	15.1
63- 64	24.7		67,237	1,659	66,408	969,091	14.4
64- 65	26.8		65,578	1,756	64,700	902,683	13.8
65- 66	29.1		63,822	1,860	62,892	837,983	13.1
66- 67	31.8		61,962	1,971	60,976	775,091	12.5
67- 68	34.8		59,991	2,087	58,947	714,115	11.9
68- 69	38.1		57,904	2,209	56,800	655,168	11.3
69- 70	41.8		55,695	2,328	54,531	598,368	10.7
70- 71	45.8		53,367	2,446	52,144	543,837	10.2
71- 72	50.3		50,921	2,561	49,641	491,693	9.7
72- 73	55.2		48,360	2,668	47,026	442,052	9.1
73- 74	60.5		45,692	2,766	44,309	395,026	8.6
74- 75	66.4		42,926	2,851	41,500	350,717	8.2
75- 76	72.8		40,075	2,918	38,616	309,217	7.7
76- 77	79.7		37,157	2,963	35,675	270,601	7.3
77- 78	87.2		34,194	2,982	32,703	234,926	6.9
78- 79	95.2		31,212	2,970	29,727	202,223	6.5
79- 80	103.6		28,242	2,926	26,779	172,496	6.1
80- 81	112.6		25,316	2,850	23,891	145,717	5.8
81- 82	122.1		22,466	2,742	21,095	121,826	5.4
82- 83	132.2		19,724	2,607	18,420	100,731	5.1
83- 84	142.9		17,117	2,446	15,894	82,311	4.8
84- 85	154.3		14,671	2,264	13,539	66,417	4.5
85- 86	166.5		12,407	2,065	11,374	52,878	4.3
86- 87	179.2		10,342	1,854	9,415	41,504	4.0
87- 88	192.5		8,488	1,634	7,671	32,089	3.8
88- 89	206.2		6,854	1,414	6,137	24,419	3.6
89- 90	220.3		5,440	1,198	4,841	18,271	3.4
90- 91	234.5		4,242	995	3,744	13,430	3.2
91- 92	249.6		3,247	811	2,842	9,686	3.0
92- 93	265.1		2,436	646	2,113	6,844	2.8
93- 94	281.6		1,790	504	1,538	4,731	2.6
94- 95	299.1		1,286	384	1,094	3,193	2.5
95- 96	317.8		902	287	758	2,099	2.3
96- 97	337.8		615	208	511	1,341	2.2
97- 98	359.4		407	146	334	830	2.0
98- 99	382.7		261	100	211	496	1.9
99-100	407.9		161	66	128	296	1.8
100-101	435.1		95	41	75	157	1.6
101-102	464.6		54	25	41	82	1.5
102-103	496.4		29	14	22	41	1.4
103-104	530.8		15	8	11	19	1.3
104-105	567.9		7	4	5	8	1.2
105-106	608.0		3	2	2	3	1.1
106-107	651.0		1	1	1	1	1.0

[1] Also known as complete expectation of life.

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TABLE 3.—NONWHITE MALES

Year of age	Mortality rate	Of 100,000 males born alive		Stationary population		Average future lifetime[1]
	Number dying per 1,000 alive at beginning of year of age	Number alive at beginning of year of age	Number dying during year of age	In year of age	In year of age and all later years	Average number of years of life remaining at beginning of year of age
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to x+1	$1000q_x$	l_x	d_x	L_x	T_x	$\mathring{e}_x$
0- 1	83.5	100,000	8,346	93,482	5,005,811	50.1
1- 2	14.2	91,654	1,303	90,885	4,912,329	53.6
2- 3	6.2	90,351	562	90,053	4,821,444	53.4
3- 4	4.1	89,789	365	89,599	4,731,391	52.7
4- 5	3.0	89,424	265	89,286	4,641,792	51.9
5- 6	2.5	89,159	221	89,048	4,552,506	51.1
6- 7	2.2	88,938	195	88,841	4,463,458	50.2
7- 8	2.0	88,743	175	88,656	4,374,617	49.3
8- 9	1.8	88,568	163	88,486	4,285,961	48.4
9- 10	1.8	88,405	159	88,325	4,197,475	47.5
10- 11	1.8	88,246	158	88,167	4,109,150	46.6
11- 12	1.8	88,088	162	88,007	4,020,983	45.6
12- 13	2.0	87,926	178	87,837	3,932,976	44.7
13- 14	2.4	87,748	214	87,641	3,845,139	43.8
14- 15	3.0	87,534	264	87,402	3,757,498	42.9
15- 16	3.6	87,270	317	87,111	3,670,096	42.1
16- 17	4.3	86,953	372	86,767	3,582,985	41.2
17- 18	5.0	86,581	430	86,366	3,496,218	40.4
18- 19	5.7	86,151	489	85,907	3,409,852	39.6
19- 20	6.4	85,662	544	85,390	3,323,945	38.8
20- 21	7.1	85,118	602	84,817	3,238,555	38.0
21- 22	7.8	84,516	661	84,185	3,153,738	37.3
22- 23	8.4	83,855	704	83,503	3,069,553	36.6
23- 24	8.7	83,151	727	82,788	2,986,050	35.9
24- 25	8.9	82,424	736	82,056	2,903,262	35.2
25- 26	9.1	81,688	746	81,315	2,821,206	34.5
26- 27	9.4	80,942	759	80,562	2,739,891	33.9
27- 28	9.6	80,183	767	79,799	2,659,329	33.2
28- 29	9.9	79,416	776	79,028	2,579,530	32.5
29- 30	10.3	78,640	765	78,248	2,500,502	31.8
30- 31	10.2	77,855	794	77,458	2,422,254	31.1
31- 32	10.4	77,061	802	76,660	2,344,796	30.4
32- 33	10.5	76,259	823	75,847	2,268,136	29.7
33- 34	11.5	75,436	866	75,003	2,192,289	29.1
34- 35	12.3	74,570	918	74,111	2,117,286	28.4
35- 36	13.1	73,652	967	73,169	2,043,175	27.7
36- 37	14.0	72,685	1,018	72,176	1,970,006	27.1
37- 38	14.7	71,667	1,056	71,139	1,897,830	26.5
38- 39	15.3	70,611	1,073	70,074	1,826,691	25.9
39- 40	15.5	69,538	1,079	68,998	1,756,617	25.3
40- 41	16.3	68,459	1,092	67,913	1,687,619	24.7
41- 42	16.9	67,367	1,114	66,810	1,619,706	24.0
42- 43	17.2	66,253	1,141	65,682	1,552,896	23.4
43- 44	18.1	65,112	1,177	64,523	1,487,214	22.8
44- 45	18.9	63,935	1,211	63,330	1,422,691	22.3
45- 46	19.9	62,724	1,251	62,099	1,359,361	21.7
46- 47	21.1	61,473	1,298	60,824	1,297,262	21.1
47- 48	22.4	60,175	1,350	59,500	1,236,438	20.5
48- 49	23.7	58,825	1,406	58,122	1,176,938	20.0
49- 50	25.4	57,419	1,461	56,688	1,118,816	19.5
50- 51	26.9	55,958	1,507	55,205	1,062,128	19.0
51- 52	28.3	54,451	1,541	53,680	1,006,923	18.5
52- 53	29.4	52,910	1,556	52,132	953,243	18.0
53- 54	30.8	51,354	1,581	50,579	901,111	17.5
54- 55	30.5	49,803	1,532	49,037	850,532	17.1

[1] Also known as complete expectation of life.

TABLE 3.—NONWHITE MALES—Continued

Year of age	Mortality rate	Of 100,000 males born alive		Stationary population		Average future lifetime[1]
	Number dying per 1,000 alive at beginning of year of age	Number alive at beginning of year of age	Number dying during year of age	In year of age	In year of age and all later years	Average number of years of life remaining at beginning of year of age
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to x+1	$1000q_x$	l_x	d_x	L_x	T_x	$\mathring{e}_x$
55- 56	31.1	48,271	1,503	47,520	801,495	16.6
56- 57	31.5	46,768	1,474	46,031	753,975	16.1
57- 58	32.1	45,294	1,455	44,567	707,944	15.6
58- 59	33.0	43,839	1,447	43,116	663,377	15.1
59- 60	34.3	42,392	1,452	41,666	620,261	14.6
60- 61	35.8	40,940	1,465	40,208	578,595	14.1
61- 62	37.6	39,475	1,483	38,733	538,387	13.6
62- 63	39.4	37,992	1,498	37,243	499,654	13.2
63- 64	41.4	36,494	1,509	35,740	462,411	12.7
64- 65	43.4	34,985	1,520	34,225	426,671	12.2
65- 66	45.7	33,465	1,529	32,700	392,446	11.7
66- 67	48.3	31,936	1,543	31,164	359,746	11.3
67- 68	51.3	30,393	1,560	29,613	328,582	10.8
68- 69	54.8	28,833	1,580	28,043	298,969	10.4
69- 70	58.7	27,253	1,599	26,453	270,926	9.9
70- 71	62.9	25,654	1,613	24,847	244,473	9.5
71- 72	67.2	24,041	1,617	23,232	219,626	9.1
72- 73	71.7	22,424	1,607	21,621	196,394	8.8
73- 74	75.9	20,817	1,581	20,027	174,773	8.4
74- 75	80.1	19,236	1,540	18,466	154,746	8.0
75- 76	84.0	17,696	1,487	16,953	136,280	7.7
76- 77	88.0	16,209	1,426	15,496	119,327	7.4
77- 78	92.1	14,783	1,361	14,103	103,831	7.0
78- 79	96.7	13,422	1,299	12,772	89,728	6.7
79- 80	102.2	12,123	1,238	11,504	76,955	6.3
80- 81	108.6	10,885	1,182	10,294	65,451	6.0
81- 82	116.0	9,703	1,126	9,140	55,157	5.7
82- 83	124.4	8,577	1,067	8,043	46,017	5.4
83- 84	133.6	7,510	1,004	7,008	37,974	5.1
84- 85	143.7	6,506	935	6,039	30,966	4.8
85- 86	154.6	5,571	861	5,141	24,927	4.5
86- 87	165.4	4,710	784	4,318	19,786	4.2
87- 88	179.2	3,926	703	3,575	15,468	3.9
88- 89	192.9	3,223	622	2,912	11,893	3.7
89- 90	207.8	2,601	540	2,331	8,981	3.5
90- 91	223.7	2,061	461	1,830	6,650	3.2
91- 92	240.8	1,600	386	1,407	4,820	3.0
92- 93	259.2	1,214	314	1,057	3,413	2.8
93- 94	278.7	900	251	774	2,356	2.6
94- 95	299.6	649	195	552	1,582	2.4
95- 96	321.9	454	146	381	1,030	2.3
96- 97	345.5	308	106	255	649	2.1
97- 98	370.7	202	75	164	394	2.0
98- 99	397.3	127	50	102	230	1.8
99-100	425.5	77	33	65	128	1.7
100-101	455.3	44	20	34	63	1.6
101-102	486.7	24	12	18	34	1.4
102-103	519.9	12	6	9	16	1.3
103-104	554.8	6	3	4	7	1.2
104-105	591.6	3	2	2	3	1.1
105-106	630.2	1	1	1	1	1.0

[1] Also known as complete expectation of life.

TABLE 4.—NONWHITE FEMALES

Year of age	Mortality rate	Of 100,000 females born alive		Stationary population		Average future lifetime[1]
	Number dying per 1,000 alive at beginning of year of age	Number alive at beginning of year of age	Number dying during year of age	In year of age	In year of age and all later years	Average number of years of life remaining at beginning of year of age
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to x+1	$1000q_x$	l_x	d_x	L_x	T_x	$\mathring{e}_x$
0- 1	68.6	100,000	6,861	94,690	5,262,457	52.6
1- 2	12.3	93,139	1,148	92,462	5,167,767	55.5
2- 3	3.5	91,991	309	91,921	5,075,305	55.2
3- 4	3.6	91,682	333	91,309	4,983,384	54.5
4- 5	2.8	91,149	255	91,016	4,892,075	53.7
5- 6	2.3	90,894	205	90,791	4,801,259	52.8
6- 7	2.0	90,689	180	90,599	4,710,468	51.9
7- 8	1.8	90,509	161	90,428	4,619,869	51.0
8- 9	1.6	90,348	146	90,274	4,529,441	50.1
9- 10	1.5	90,200	141	90,130	4,439,167	49.2
10- 11	1.5	90,059	138	89,990	4,349,037	48.3
11- 12	1.5	89,921	137	89,852	4,259,047	47.4
12- 13	1.8	89,784	158	89,705	4,169,195	46.4
13- 14	2.3	89,626	210	89,521	4,079,490	45.5
14- 15	3.2	89,416	282	89,275	3,989,969	44.6
15- 16	4.0	89,134	354	88,957	3,900,694	43.8
16- 17	4.8	88,780	429	88,565	3,811,737	42.9
17- 18	5.6	88,351	496	88,103	3,723,172	42.1
18- 19	6.2	87,855	544	87,583	3,635,069	41.4
19- 20	6.6	87,311	576	87,022	3,547,486	40.6
20- 21	7.1	86,735	615	86,426	3,460,464	39.9
21- 22	7.6	86,118	652	85,792	3,374,038	39.2
22- 23	7.9	85,466	678	85,127	3,288,246	38.5
23- 24	8.1	84,788	692	84,443	3,203,119	37.8
24- 25	8.3	84,096	694	83,751	3,118,676	37.1
25- 26	8.4	83,404	698	83,055	3,034,925	36.4
26- 27	8.5	82,706	701	82,356	2,951,870	35.7
27- 28	8.6	82,005	702	81,654	2,869,514	35.0
28- 29	8.7	81,303	705	80,951	2,787,860	34.3
29- 30	8.8	80,598	710	80,240	2,706,909	33.6
30- 31	9.0	79,888	713	79,531	2,626,666	32.9
31- 32	9.0	79,175	714	78,818	2,547,135	32.2
32- 33	9.3	78,461	728	78,097	2,468,317	31.5
33- 34	9.8	77,733	765	77,351	2,390,220	30.7
34- 35	10.6	76,968	813	76,561	2,312,869	30.0
35- 36	11.3	76,155	860	75,725	2,236,308	29.4
36- 37	12.1	75,295	911	74,840	2,160,583	28.7
37- 38	12.8	74,384	950	73,909	2,085,743	28.0
38- 39	13.2	73,434	967	72,950	2,011,834	27.4
39- 40	13.4	72,467	975	71,979	1,938,884	26.8
40- 41	13.8	71,492	989	70,997	1,866,905	26.1
41- 42	14.3	70,503	1,009	69,998	1,795,908	25.5
42- 43	14.9	69,494	1,034	68,977	1,725,910	24.8
43- 44	15.6	68,460	1,067	67,926	1,656,933	24.2
44- 45	16.3	67,393	1,100	66,843	1,589,007	23.6
45- 46	17.2	66,293	1,140	65,723	1,522,164	23.0
46- 47	18.3	65,153	1,190	64,558	1,456,441	22.4
47- 48	19.5	63,963	1,249	63,339	1,391,883	21.8
48- 49	21.0	62,714	1,316	62,056	1,328,544	21.2
49- 50	22.6	61,398	1,387	60,705	1,266,488	20.6
50- 51	24.2	60,011	1,455	59,284	1,205,783	20.1
51- 52	25.8	58,556	1,511	57,800	1,146,499	19.6
52- 53	27.2	57,045	1,551	56,269	1,088,699	19.1
53- 54	28.3	55,494	1,569	54,710	1,032,430	18.6
54- 55	29.1	53,925	1,568	53,141	977,720	18.1

[1] Also known as complete expectation of life.

TABLE 4.—NONWHITE FEMALES—Continued

Year of age	Mortality rate	Of 100,000 females born alive		Stationary population		Average future lifetime[1]
	Number dying per 1,000 alive at beginning of year of age	Number alive at beginning of year of age	Number dying during year of age	In year of age	In year of age and all later years	Average number of years of life remaining at beginning of year of age
(1)	(2)	(3)	(4)	(5)	(6)	(7)
x to x+1	$1000q_x$	l_x	d_x	L_x	T_x	$\mathring{e}_x$
55- 56	29.7	52,357	1,555	51,580	924,579	17.7
56- 57	30.3	50,802	1,539	50,032	872,999	17.2
57- 58	31.1	49,263	1,531	48,497	822,967	16.7
58- 59	32.1	47,732	1,534	46,965	774,470	16.2
59- 60	33.5	46,198	1,547	45,424	727,505	15.7
60- 61	35.1	44,651	1,566	43,868	682,081	15.3
61- 62	36.7	43,085	1,582	42,294	638,213	14.8
62- 63	38.2	41,503	1,587	40,710	595,919	14.4
63- 64	39.7	39,916	1,584	39,124	555,209	13.9
64- 65	41.1	38,332	1,574	37,545	516,085	13.5
65- 66	42.6	36,758	1,565	35,975	478,540	13.0
66- 67	44.4	35,193	1,561	34,412	442,565	12.6
67- 68	46.6	33,632	1,567	32,849	408,153	12.1
68- 69	49.3	32,065	1,581	31,275	375,305	11.7
69- 70	52.4	30,484	1,598	29,685	344,030	11.3
70- 71	55.8	28,886	1,612	28,080	314,345	10.9
71- 72	59.3	27,274	1,616	26,466	286,265	10.5
72- 73	62.4	25,658	1,602	24,857	259,799	10.1
73- 74	65.2	24,056	1,568	23,272	234,942	9.8
74- 75	67.5	22,488	1,518	21,729	211,670	9.4
75- 76	69.4	20,970	1,456	20,242	189,941	9.1
76- 77	71.3	19,514	1,391	18,819	169,699	8.7
77- 78	73.5	18,123	1,332	17,457	150,880	8.3
78- 79	76.4	16,791	1,283	16,149	133,423	7.9
79- 80	80.2	15,508	1,244	14,886	117,274	7.6
80- 81	85.1	14,264	1,214	13,657	102,388	7.2
81- 82	90.8	13,050	1,185	12,458	88,731	6.8
82- 83	97.3	11,865	1,154	11,288	76,273	6.4
83- 84	104.5	10,711	1,119	10,151	64,985	6.1
84- 85	112.4	9,592	1,078	9,053	54,834	5.7
85- 86	121.2	8,514	1,032	7,998	45,781	5.4
86- 87	130.9	7,482	980	6,992	37,783	5.0
87- 88	141.5	6,502	920	6,042	30,791	4.7
88- 89	153.2	5,582	855	5,154	24,749	4.4
89- 90	165.9	4,727	784	4,335	19,595	4.1
90- 91	179.7	3,943	709	3,589	15,260	3.9
91- 92	194.8	3,234	630	2,919	11,671	3.6
92- 93	211.0	2,604	549	2,330	8,752	3.4
93- 94	228.6	2,055	470	1,820	6,422	3.1
94- 95	247.6	1,585	392	1,389	4,602	2.9
95- 96	268.0	1,193	320	1,033	3,213	2.7
96- 97	289.8	873	253	741	2,180	2.5
97- 98	313.3	620	194	523	1,439	2.3
98- 99	338.3	426	144	354	916	2.1
99-100	365.0	282	103	230	557	2.0
100-101	393.5	179	71	144	327	1.8
101-102	423.7	108	45	86	183	1.7
102-103	455.8	63	29	48	97	1.5
103-104	489.8	34	17	26	49	1.4
104-105	525.7	17	9	13	23	1.3
105-106	563.7	8	4	6	10	1.2
106-107	603.8	4	3	3	4	1.1
107-108	646.0	1	0	1	1	1.0
108-109	690.5	1	1			.9

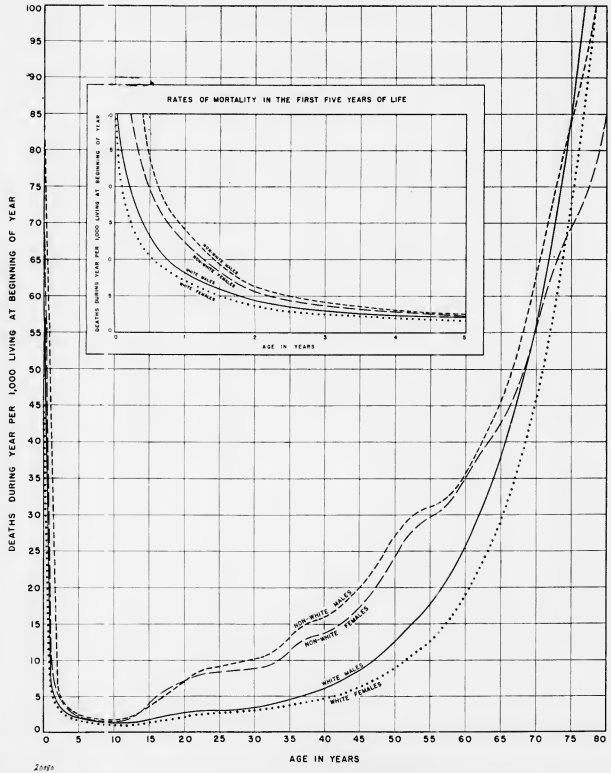
[1] Also known as complete expectation of life

UNITED STATES LIFE TABLES

PREPARED BY THE U.S. BUREAU OF THE CENSUS

RATES OF MORTALITY BY SEX AND RACE

1930-1939 (PRELIMINARY)

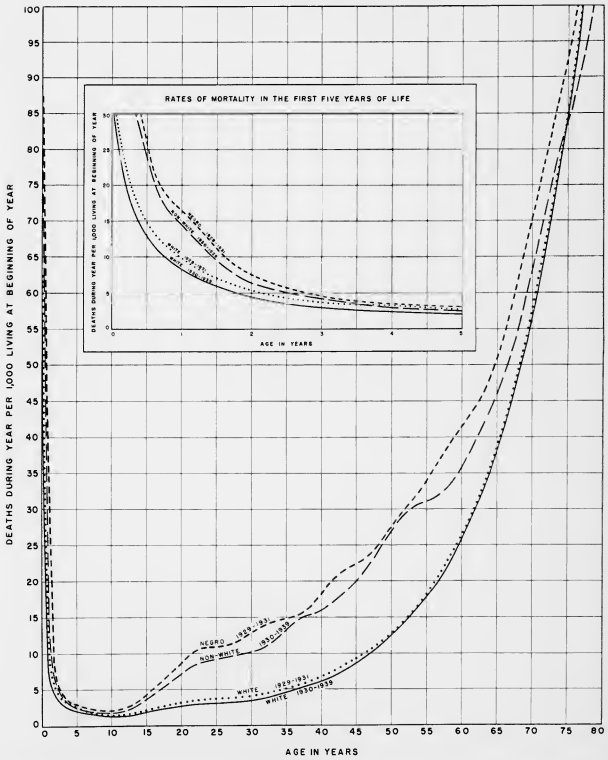


UNITED STATES LIFE TABLES

PREPARED BY THE U.S. BUREAU OF THE CENSUS

MALE RATES OF MORTALITY BY RACE

1929-1931 AND 1930-1939 (PRELIMINARY)

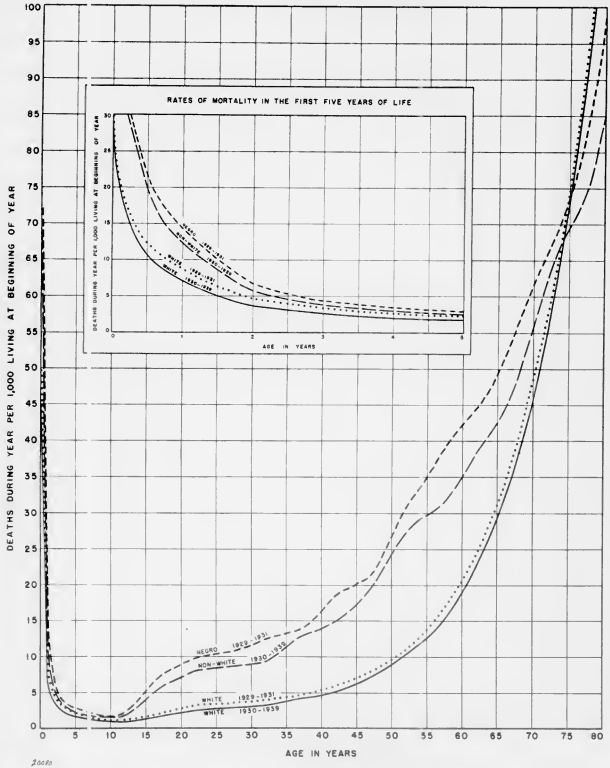


UNITED STATES LIFE TABLES

PREPARED BY THE U.S. BUREAU OF THE CENSUS

FEMALE RATES OF MORTALITY BY RACE

1929-1931 AND 1930-1939 (PRELIMINARY)



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